

FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTPAT. DOCKET NO.
0942.4290008/SRL/FRC
FIRST NAMED INVENTOR
Fike et al.APPLICATION NO.
10/685,802FILING DATE
October 16, 2003ART UNIT
1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
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	AD						
ma	AE4	4,692,340	09/08/1987	Grütte et al.	—	—	10/04/1985
	AF						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
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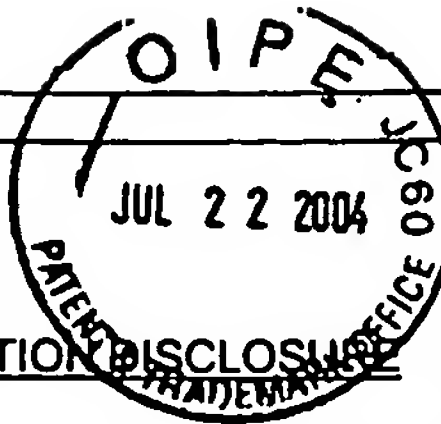
EXAMINER

Michelle C. Flood

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3/3/2007

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ATTY. DOCKET NO.
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APPLICATION NO.
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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP4	WO 84/04107	10/25/1984	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
mc7	AS	13	Unverified English Translation of Office Action mailed on April 27, 2004, in Japanese Patent Application No. 10-535951
↓	AT	13	Sigma-Aldrich, "Biochemicalien Organische Verbindungen en Diagnostica" Sigma-Chemie Catalogue, Zwijndrecht, NL, pp. 1553,1634 (1996)

EXAMINER *Michelle C. Flard* DATE CONSIDERED *3/3/2007*

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
mc	AL5	WO 95/13865	05/26/1995	WIPO	—	—	Yes No
↓	AM5	JP59-501933	11/22/1984	Japan	—	—	Yes X No
↓	AN5	JP60-248172	12/07/1985	Japan	—	—	Yes X No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
m	AA1	3,771,237	11/13/1973	Hansen et al.	—	—	04/04/1972
	AB1	4,071,412	01/31/1978	Eisenberg et al.	—	—	05/05/1975
	AC1	4,072,570	02/07/1978	Williams	—	—	02/20/1976
	AD1	4,073,951	02/14/1978	Sargeant	—	—	08/25/1976
	AE1	4,490,403	12/25/1984	Pisecky et al.	—	—	06/13/1983
	AF1	4,511,592	04/16/1985	Percel et al.	—	—	06/20/1984
	AG1	4,544,637	10/01/1985	Keggins et al.	—	—	09/14/1982
	AH1	4,615,978	10/07/1986	Sandine et al.	—	—	12/18/1984
	AI1	4,620,908	11/04/1986	Van Duzer	—	—	06/18/1984
	AJ1	4,621,058	11/04/1986	Reddy	—	—	04/09/1984
	AK1	4,632,980	12/30/1986	Zee et al.	—	—	04/03/1985

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
m	AL1	GB 1 355 192	06/05/1974	Great Britain	—	—	Yes No
	AM1	CS 169,007	06/29/1976	Czechoslovakia	—	—	X Yes No
	AN1	WO 94/27645	06/29/1976	WIPO	—	—	Yes No
	AO1	JP 51-98354	08/30/1976	Japan	—	—	X Yes No
	AP1	EP 0 049 632 A2	04/14/1982	Europe	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

m	AR	1	Brock, T.D., et al., "Acidity and pH," in <i>Biology of Microorganisms</i> , 4 th edition, Brock, T.D., et al., eds., Prentice-Hall, Englewood Cliffs, NJ, p. 275 (1984)
	AS	1	Camire, J.C.F., et al., "Efficient Cultivation of Cells Using Powdered Serum," <i>In Vitro</i> 34:Abstract No. V-1008 (March 1998)
	AT	1	Davis, B., et al., in <i>Microbiology: Including Immunology and Molecular Genetics</i> , Ch. 67, 3rd Ed., Harper & Row, Philadelphia, pp. 1264-1274 (1980)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
mcf	AA2	4,689,297	08/25/1987	Good <i>et al.</i>	—	—	03/05/1985
	AB2	4,820,627	04/11/1989	McGeeham	—	—	03/24/1986
	AC2	4,885,848	12/12/1989	Christensen	—	—	07/13/1988
	AD2	4,975,246	12/04/1990	Charm	—	—	01/23/1989
	AE2	4,999,301	03/12/1991	Bryan-Jones	—	—	09/27/1988
	AF2	5,006,204	04/09/1991	Jensen	—	—	10/31/1988
	AG2	5,133,137	07/28/1992	Petersen	—	—	02/05/1991
	AH2	5,155,039	10/13/1992	Chrisope <i>et al.</i>	—	—	07/22/1991
	AI2	5,325,606	07/05/1994	Liborius	—	—	12/23/1992
	AJ2	5,357,688	10/25/1994	Christensen	—	—	05/04/1993
	AK2	5,366,696	11/22/1994	Williams	—	—	01/07/1993

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
mcf	AL2	JP 57-152882	09/21/1982	Japan	—	—	X Yes No
	AM2	SU 1097253	06/15/1984	Soviet Union	—	—	X Yes No
	AN2	EP 0 155 427 A1	09/25/1985	Europe	—	—	X Yes No
	AO2	JP 1-157395	06/20/1989	Japan	—	—	X Yes No
	AP2	JP 2-57175	02/26/1990	Japan	—	—	X Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mcf	AR	2	Downes, <i>et al.</i> , "The relative value of irradiated spray-dried blood powder and heat-sterilized blood meal as measured in combination with whey protein," <i>Suid Afrikaanse Tydskrif Vir Veekunde (S. Afr. J. Anim. Sci.)</i> 17:55-58 (1987)
	AS	2	Frazier, W.C., and Westhoff, D.C., "General Principles of Food Preservation: Asepsis, Removal, Anaerobic Conditions," in <i>Food Microbiology</i> , 3 rd edition, Vastyan, J.E., and Bradley, J.W., eds., McGraw-Hill, Inc., New York, pp. 93-99, 122-123, 126-127, 143-153, 161, 434-436, 444-445 (1978)
	AT	2	Freshney, R.I., "The Culture Environment: II. Media and Supplements," In: <i>Culture of Animal Cells: A Manual of Basic Technique</i> , Alan R. Liss, Inc., New York, NY, pp. 74-78 (1983)

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
mc	AA3	5,392,531	02/28/1995	Christensen <i>et al.</i>	—	—	02/28/1994
	AB3	5,474,931	12/12/1995	DiSorbo <i>et al.</i>	—	—	09/21/1993
	AC3	5,518,709	05/21/1996	Sutton <i>et al.</i>	—	—	04/10/1992
	AD3	5,580,856	12/03/1996	Prestrelski <i>et al.</i>	—	—	07/15/1994
	AE3	5,700,426	12/23/1997	Schmitthaeusler <i>et al.</i>	—	—	11/30/1994
	AF3	5,756,046	05/26/1998	Winks <i>et al.</i>	—	—	06/15/1994
	AG3	5,773,279	06/30/1998	Miller <i>et al.</i>	—	—	11/27/1996
	AH3	5,811,406	09/22/1998	Szoka, Jr. <i>et al.</i>	—	—	06/09/1995
	AI3	5,869,321	02/09/1999	Franklin	—	—	08/20/1997
	AJ3	6,627,426	09/30/2003	Biddle <i>et al.</i>	—	—	05/23/2000
↓	AK3	6,383,810	05/07/2002	Fike <i>et al.</i>	—	—	03/13/1998

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
mc	AL3	EP 0 356 071 A2	02/28/1990	Europe	—	—	Yes No
	AM3	JP 4-198137	07/17/1992	Japan	—	—	Yes X No
	AN3	DK 167090 B1	08/30/1993	Denmark	—	—	Yes X No
	AO3	WO 95/13867	05/26/1995	WIPO	—	—	Yes No
↓	AP3	WO 96/23868	08/08/1996	WIPO	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mc	AR	3	GEA Process Technology Division, Aeromatic-Fielder Division, technical brochure entitled "Batch fluid beds: Customized fluid bed systems for solids processing," Columbia, MD
	AS	3	GEA Pharmaceutical Processing, Marketing brochure entitled "Plant and Process Technology by the GEA Companies," Columbia, MD
↓	AT	3	GIBCO BRL 1995-1996 Product Catalogue and Reference Guide, Life Technologies, Inc., Gaithersburg, MD (January 1995)

EXAMINER	DATE CONSIDERED 3/3/2007
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
mq ↓	AA4	2,835,586	05/20/1958	Peebles	—	—	07/27/1953
	AB4	6,140,121	10/31/2000	Ellington <i>et al.</i>	—	—	10/17/1996
	AC4	4,053,542	10/11/1977	Hup <i>et al.</i>	—	—	06/12/1975
	AD4	5,773,061	06/30/1998	Getler <i>et al.</i>	—	—	05/15/1996
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
mq ↓	AL4	WO 97/11157	03/27/1997	WIPO	—	—	Yes No
	AM4	WO 97/38734	10/23/1997	WIPO	—	—	Yes No
	AN4	WO 97/42980	11/20/1997	WIPO	—	—	Yes No
	AO4	WO 98/15297	04/16/1998	WIPO	—	—	Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mq ↓	AR	4	Hampel, C.A., and Hawley, C.G., <i>et al.</i> , "Sterilization (Industrial)," in <i>The Encyclopedia of Chemistry</i> , 3 rd edition, Hampel, C.A., and Hawley, G.G., eds., Van Nostrand Reinhold Company, New York, pp. 1052-1053 (1973)
	AS	4	Hana, <i>et al.</i> , "Preservation of sera, protein fractions, and tissue cultures media by spray drying," (English language abstract for CS 169,007 (Document No. AM1)) <i>Chem. Abstracts</i> 88:17 Abstract No. 118717 (1978)
	AT	4	Harlow, E., and Lane, D., "Sampling Serum," in <i>Antibodies: A Laboratory Manual</i> , Cold Spring Harbor Laboratory (1988)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mc	AR	5	Hay, <i>et al.</i> , American Type Culture Collection Catalogue of Cell Lines and Hybridomas, 6th Ed., ATCC, Rockville, MD, p. 347 (1988)
↓	AS	5	Jensen, J.D., "(Some recent advances in) Agglomerating, Instantizing, and Spray Drying," <i>Food Technol.</i> 29:60-71, Institute of Food Technologists (1975)
↓	AT	5	Life Technologies, Inc., "GIBCO-BRL 1995-1996 Product Catalogue and Reference Guide," Thomson Print Services Ltd., Glasgow, Scotland, pp. 1-18, 1-24, and 1-7 (1995)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mc7	AR	6	Life Technologies, Inc., "GIBCO-BRL 1996-1997 Catalogue for Cell Culture," Thomson Print Services Ltd., Glasgow, Scotland, p. 16 and p. 56 (1996)
1	AS	6	Life Technologies, "GIBCO-BRL 1996-1997 Catalogue for Cell Culture," Thomson Print Services Ltd., Glasgow, Scotland, pp. 79-84 (1996)
1	AT	6	Maa, Y-F., <i>et al.</i> , "Spray-coating of rhDNase on lactose: effect of system design, operational parameters and protein formulation," <i>Int. J. Pharm.</i> 144:47-59, Elsevier Science B.V. (November 1996)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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mc7	AR	<u>1</u>	NIRO, Inc., Technical Bulletin No. 95001 entitled "Fluid Bed Multi-Processor," Aeromatic-Fielder Division, Columbia, MD (1995)
↓	AS	<u>1</u>	Reinert, J., and Yeoman, M.M., "Sterilisation," "Culture Media," and "Composition of Culture Media," in <i>Plant Cell and Tissue Culture: A Laboratory Manual</i> , Springer-Verlag, Berlin, Germany, pp. 74 and 76-77 (1982)
↓	AT	<u>1</u>	Robey, T.E., and Ryan, J.M., "A Comparison of the Effects of Powdered and Liquid Fetal Bovine Serum on Normal Human Cell Growth, Metabolism and Urokinase Formation," <i>In Vitro</i> 34:Abstract No. V-1007 (March 1998)

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mc	AR	8	Rohde, P.A., <i>et al.</i> , BBL Manual of Products and Laboratory Procedures, BBL-Becton Dickinson & Co., pp. 97, 101, 111, 123, 124 (1973)
↓	AS	8	Derwent World Patent Index, Accession No. 1976-78201X, English language abstract for JP 51-98354 (Document AO1)
↓	AT	8	Derwent World Patent Index, Accession No. 1982-91800E, English language abstract for JP 57-152882 (Document AL2)

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mc2	AR	9	WIPDS Database on STN, Accession No. 85-005539, English language abstract for Soviet Union Patent Publication No. SU 1097253 (Document AM2)
↓	AS	9	Derwent World Patent Index, Accession No. 4411606, English language abstract for EP 0 155 427 A1 (Document AN2)
↓	AT	9	Derwent World Patent Index, Accession No. 1989-218070, English language abstract for JP 1-157395 (Document AO2)

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mcf	AR	<u>10</u>	Unverified English Translation of Japanese Patent Application Publication No. JP 2-57175 (Document AP2)
↓	AS	<u>10</u>	JPO English language abstract for JP 4-198137 (Document AM3)
↓	AT	<u>10</u>	Derwent World Patent Index, Accession No. 76-44200X/197624, English language abstract for DK 167090 (Document AN3)

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10/685,802FIRST NAMED INVENTOR
Fike *et al.*FILING DATE
October 16, 2003ART UNIT
1636

1655

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
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	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mc7	AR	11	European Search Report for European Application No. EP 98 90 8542, completed September 9, 2002
↓	AS	11	"Granulated Media," in Microbiology Catalog, EM Science, Cincinnati, Ohio (1999)
↓	AT	11	Marketing brochure for EZMix Fermentation Media, Sigma, St. Louis, MO, publication date before October 1, 1996

EXAMINER

Dichela C. Flood

DATE CONSIDERED

3/3/07

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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10/685,802FIRST NAMED INVENTOR
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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mcf	AR	12	Product and Corporate Information, American Protein Corporation, < http://www.AmericanProtein.com/index.html > (July 1999)
↓	AS	12	United States Patent Application No. 09/705,940, Fike <i>et al.</i> , filed November 6, 2000 (NOT PUBLISHED)
↓	AT	12	BBL Manual of Products and Laboratory Procedure, 5 th Edition, Cockeysville, MD, pg. 161-162 (1973)

EXAMINER

Nichole C Flood

DATE CONSIDERED

3/3/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

0942.4290008/RWE/FRC

APPLICATION NO.

10/685,802

FIRST NAMED INVENTOR

Fike *et al.*

FILING DATE

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mc7	AR	13	Fassolitis, A.C., <i>et al.</i> , "Serum substitute in epithelial cell culture media: Nonfat dry milk filtrate," <i>Applied and Environmental Microbiology</i> 42:200-203, American Society for Microbiology (1981)
	AS		
	AT		

EXAMINER

Nichola C. Flood

DATE CONSIDERED

3/3/2007

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